

Title (en)

SEALING STRUCTURE IN WHICH ANNULAR POCKET AND SEALING DEVICE ARE USED

Title (de)

DICHTUNGSSTRUKTUR MIT VERWENDUNG EINER RINGFÖRMIGEN TASCHE UND EINER DICHTUNGSVORRICHTUNG

Title (fr)

STRUCTURE D'ÉTANCHÉITÉ DANS LAQUELLE SONT UTILISÉS UNE CAVITÉ ANNULAIRE ET UN DISPOSITIF D'ÉTANCHÉITÉ

Publication

**EP 3453928 C0 20230607 (EN)**

Application

**EP 17799387 A 20170516**

Priority

- JP 2016099972 A 20160518
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Abstract (en)

[origin: EP3453928A1] A sealing structure with an annular pocket and a sealing device that is capable of suppressing a seal lip of a sealing device from being exposed to foreign matter from the outside is provided. A sealing structure (1) with an annular pocket and a sealing device includes an annular pocket (10) and a sealing device (20). The pocket (10) is provided in a slinger (30), and the sealing device (20) is attached to a housing (41) of a differential device (40). The slinger (30) is arranged on an output shaft (42) of the differential device (40), a recessed part (12) of the pocket (10) is defined by an inner peripheral tubular portion (31), an outer peripheral tubular portion (32) and a bottom portion (33) of the slinger (30), and the outer peripheral surface (11) of the pocket (10) is formed in the outer peripheral tubular portion (32) of the slinger (30). The outer peripheral surface (11) of the pocket (10) increases in diameter toward the outside in an axis (x) direction. A side lip (29) of the sealing device (20) extends in the outward direction, and an annular gap (g1) is formed between the side lip (29) and the pocket (10).

IPC 8 full level

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CPC (source: EP KR US)

**F16C 19/186** (2013.01 - EP KR US); **F16C 19/364** (2013.01 - KR); **F16C 33/7826** (2013.01 - EP); **F16C 33/7876** (2013.01 - EP KR US); **F16C 33/805** (2013.01 - EP KR US); **F16J 15/3232** (2013.01 - EP KR US); **F16J 15/447** (2013.01 - EP KR US); **F16C 19/364** (2013.01 - EP US); **F16C 33/76** (2013.01 - US); **F16C 33/7879** (2013.01 - EP); **F16C 2240/30** (2013.01 - EP); **F16C 2326/02** (2013.01 - EP KR US); **F16C 2361/61** (2013.01 - EP US)

Cited by

GB2591327A; GB2591327B; US11346449B2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Participating member state (EPC – UP)

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